HELMINTHOLOGICAL ABSTRACTS

SERIES A
ANIMAL AND HUMAN HELMINTHOLOGY

Volume 52

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1983

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HELMINTHOLOGICAL ABSTRACTS
SERIES A
ANIMAL & HUMAN HELMINTHOLOGY

Volume 52, 1983

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ABBREVIATIONS USED IN *HELMINTHOLOGICAL ABSTRACTS, SERIES A*

Authors Addresses

Acad	Academy
Agric	Agricultural, Agriculture, etc.
Agron	Agronomy
Ass	Association
Biol	Biology, Biological, etc.
Cent	Central
Col	College
Dep	Department
Div	Division
Exp	Experimental, Experiment
Fed	Federal
Gov	Government
Inst	Institute
Lab	Laboratory
Med	Medical, Medicine, etc.
Parasit	Parasitology
Path	Pathology
Reg	Regional
Res	Research
Sch	School
Sci	Scientific
Soc	Society
Sta	Station
Tech	Technical
Trop	Tropical
Univ	University
Vet	Veterinary
Zool	Zoology, Zoological, etc.

Language Symbols

Af	Afrikaans
Al	Albanian
Ar	Arabic
Az	Azerbaijan(i)/Azerbaidzhani/ Azerbaidzhanian
Be	Belorussian
Bg	Bulgarian
Ch	Chinese
Cr	Croat
Cs	Czech
Da	Danish
Nl	Dutch
En	English
Ee	Estonian
Fi	Finnish
Nl	Flemish
Fr	French
De	German
Gr	Greek
He	Hebrew
Hu	Hungarian
Is	Icelandic
In	Indonesian
It	Italian
Ja	Japanese
Ko	Korean
La	Latin
Lv	Latvian
Li	Lithuanian
Ma	Macedonian
My	Malay/Bahasamalaysia
No	Norwegian
Pe	Persian
Pl	Polish
Pt	Portuguese
Ro	Romanian
Ru	Russian
Sr	Serbian
Sh	Serbo-Croat
Sk	Slovak
Sn	Slovene
Es	Spanish
Sv	Swedish
Ta	Tajik/Tadzhik
Tr	Turkish
Uk	Ukrainian

Taxonomic Abbreviations

n.sp.	new species
n.g.	new genus
n.comb.	new combination
syn.	synonym
sp.inq.	species inquirenda
nom.nov.	nomen novum
nom.nud.	nomen nudum
n.subsp.	new subspecies
n.ord.	new order
n.fam.	new family

General Abbreviations

The abbreviations used for the names of common units and chemical substances are in accordance with British Standard 1991: 1967. The following additional abbreviations are also used:

ACTH	adrenocorticotropic hormone
ADP	adenosine diphosphate
a.i.	active ingredient
a.m.	morning
ATP	adenosine triphosphate
CFT	complement fixation test
CHR	cercarienhullenreaktion test
CNS	central nervous system
CSF	cerebro-spinal fluid
cv.	cultivar
DASS	defined antigen substrate spheres
DNA	deoxyribonucleic acid
e.g.	for example
ELIEDA	enzyme-linked immunoelectrodiffusion assay
ELISA	enzyme-linked immunosorbent assay
e.p.g.	eggs per gram
ES	excretory/secretory
F	filial generation
FAO	Food & Agricultural Organization
FAT	fluorescent antibody test
Hb	haemoglobin
HAI	indirect haemagglutination test
Hm/A	Helminthological Abstracts, Series A, Animal & Human Helminthology
Hm/B	Helminthological Abstracts, Series B, Plant Nematology
i.e.	that is
IEP	immunoelectrophoresis
Ig	immunoglobulin
i.p.	intraperitoneal
IU	international unit
i.v.	intravenous
L1-4	larval stage 1-4
LFT	latex flocculation test
mf	microfilaria
MIT	macrophage inhibition test
M(sm.cap.)	molar
P	parental generation
p.m.	afternoon
PCA	passive cutaneous anaphylaxis
PCV	packed cell volume
p.p.m.	parts per million
Pz	Protozoological Abstracts
RAST	radio allergosorbent test
RBC	red blood cell
resp.	respectively
RH	relative humidity
RNA	ribonucleic acid
USDA	United States Department of Agriculture
UV	ultra violet
var.	variety
v/v	volume/volume
WBC	white blood cell
WHO	World Health Organization
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year

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Page	*Abstract*	*Line*	
23	54	11	For '*E. histolytica*' read '*Entamoeba histolytica*'
28	104	9	For '*Hydatigena*' read '*Hydatigera*'
30	135	1	For 'MARKOV,.S.' read 'MARKOV, G.S.'
31	139	6	For '*Haemonchus*' read '*Haemulon*'
31	142	6	For '1 pp' read '1 ppm'
50	316	9	For '3175' read '175'
64	447	1	Delete 'bovine'
68	481	10	For '*Echinococus*' read '*Echinococcus*'
112	815	16	For 'observered' read 'observed'
118	868	17	For 'producted' read 'produced'
208	1735	7	For 'rual' read 'rural'
210	1761	7	For 'apizootiology' read 'epizootiology'
211	1765	6	For 'insufficency' read 'insufficiency'
214	1795	5	After '*Sorex caecutiens*' insert 'in spring'
214	1795	6	After '*S. caecutiens*' insert 'in autumn'
220	1865	2	For '*Acticomyces*' read '*Actinomyces*'
221	1868	11	For '*Dictyocualus*' read '*Dictyocaulus*'
221	1868	11	For 'experientally' read 'experimentally'
242	2050	9	For 'pulpplant' read 'pulp plant'
242	2050	14	For '*D. homoin*' read '*D. homoion*'
259	2216	1	For 'genitic' read 'genetic'
261	2233	14	For 'Institue' read 'Institute'
266	2280	5	For '*L'Arc*' read '*LARC*'

READER'S GUIDE

Helminthological Abstracts, Series A, Animal and Human Helminthology provides a monthly summary of the recent world literature on all aspects of work on parasitic helminths (Monogenea, Aspidobothria, Digenea, Cestoda, Cestodaria, Acanthocephala, Nematoda, Nematomorpha) including morphology, taxonomy and nomenclature, cytology, biochemistry, development, life-history, ecology and the pathology, immunology, epidemiology and control of the infections they cause.

Coverage also includes the literature on the Nematomorpha, other flat worms (platyhelminths) where they are in a parasitic relationship, aspects of the parasitism of leeches of medical and veterinary importance, and the biology and ecology of molluscan vectors. The literature on marine, free-living and plant-parasitic nematodes and on nematodes parasitic in insects as final hosts is covered by *Helminthological Abstracts, Series B, Plant Nematology*. Areas of interest to parasitologists outside or peripheral to the scope of *Helminthological Abstracts,* such as the biology and control of insect vectors, diseases caused by protozoa or diseases due to bacterial or mycotic infection, are fully covered by other CAB abstract journals, respectively, *Review of Applied Entomology Series B – Medical and Veterinary, Protozoological Abstracts, Veterinary Bulletin* and *Review of Medical and Veterinary Mycology.*

The abstracts enable readers to keep themselves informed of the progress of current work and allow them to decide whether or not they need to see the original document.

Photocopies of most of the papers abstracted are obtainable through the Library of the Commonwealth Institute of Parasitology, but to satisfy copyright regulations enquirers are urged to use a copy of the copyright form printed in the front of each issue of *Helminthological Abstracts.*

Over 2000 serial publications as well as books, reports and theses are regularly examined for relevant material, principally research findings and reviews. Some background papers may be abstracted briefly and others of local or marginal interest are referred to by title only. Authors' summaries are used whenever they are considered adequate and are indicated by [AS]. A special effort is made to provide informative abstracts of papers in the less commonly used languages and from less easily obtained journals.

When consulting an entry the reader should remember that the title is an integral part of the abstract and may include information necessary for its full comprehension.

In a typical entry the name(s) of the author(s) are followed by the title of the paper in English. If the paper is written in a language other than English, the English translation of the title is enclosed in square brackets. The title in the original language, if not English, follows, except for Arabic, Chinese, Japanese etc. Cyrillic characters are transliterated for the titles of books but not for the titles of papers. Journal titles are next given in unabbreviated form. The year of issue, in round brackets, the volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary details given in square brackets include the language of the paper (a two-letter abbreviation with an initial capital) and the language of any summary or summaries in languages other than that of the paper (a similar abbreviation without an initial capital); the number of references, plates, figures, graphs, maps, tables may also be included. The address of the first author is usually given in abbreviated form. Some commonly used abbreviations are listed at the end of these notes.

Conference papers, whether published in book form or as proceedings, appear either as a single general abstract under the classification "Conferences" or as a number of abstracts under appropriate classifications with a single general entry under "Conferences". Conference abstracts are not abstracted.

Every effort is made to achieve consistency in the nomenclature of helminths used in *Helminthological Abstracts.* Preferred names, as defined by the International Commission for Zoological Nomenclature are used in the abstracts (e.g. *Trichuris* rather than *Trichocephalus*), sometimes introduced by square brackets, and also in the subject index. Hosts are usually given as in the original paper although an effort is made to use the Latin name, if it is known, in preference to the common name. Only the well known domestic and laboratory animals are referred to by their common names. Anthelmintics and other medication used for, or associated with, the treatment of helminth infection are usually given in the abstract in the same form as in the original paper, but the preferred form will be used in the subject index.

Within *Helminthological Abstracts* the abstracts are arranged under Classifications that reflect the main emphasis of the work. When more than one aspect is covered in a paper there may be a cross reference between Classifications but the abstract will appear only once. However, the Classification "Morphology, Taxonomy and Nomenclature" and "Control" have higher priority so that abstracts containing descriptions of new taxa or new control methods will appear in these Classifications even if the main part of the work may be appropriate to some other Classification. The Classification must be seen as a rough guide only and reference should be made to the subject index for more specific searching.

The subject index is a parasite-orientated index, so that entries are under parasite and host rather than disease. Thus all papers on schistosomiasis will be indexed under the name of the relevant *Schistosoma* species (see notes for Subject Index for additional information).

Access to all the abstracts published in *Helminthological Abstracts* since 1930 is available within the Institute with the aid of cumulated indices, and, along with extensive library holdings of journals, books and reprints, these represent one of the world's most significant collections of information on helminthology. Readers are encouraged to write to the Institute if they have any problems with the helminthological literature or to visit the library themselves to carry out bibliographical research.

On-line facilities are also available for searching all abstracts published in *Helminthological Abstracts* and all the other CAB journals since 1973. From time to time review articles by authoritative authors are published in *Helminthological Abstracts* and staff of the Institute provide Annotated Bibliographies and other publications in helminthology.

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The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries and there are no cross-references to show joint authorship. Thus a paper by "Brown, B.; Jones, A.; Smith, J." would have three separate entries: "Brown, B", "Jones, A.", and "Smith, J.". There is no distinction between subsidiary and senior authors. Apparent inconsistencies may appear in the spelling of authors' names; this is because variations in spelling occur in primary journals. Authors' names in this index are spelt as they appeared in the original paper. If we have knowledge of their identity, alternative versions may also be given.

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SUBJECT INDEX

Beginning with Volume 52 the structure of the subject index of this journal changed slightly. This was partly due to the development of the *CAB Thesaurus* and partly to the need to conform to a standard index structure common to all CAB journals. Most leading terms therefore conform to the preferred terms as listed in the *CAB Thesaurus* [copies are obtainable from CAB (Central Sales), Farnham House, Farnham Royal, Slough SL2 3BN, UK].

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries. The leading key word unit in an entry appears in **bold type**. Aggregation of entries sharing identical keyword units is indicted by indentation. Basically there are four levels of indentation – parasite, host, country, subject aspect.

Hosts are indexed under their specific names, where given, except domesticated animals (e.g. cats, pigs, sheep) and where numerous hosts of the same group are listed in the one paper (e.g. Amphibia, birds). The use of alternative scientific names for host or parasite is avoided wherever possible but in cases in which nomenclatorial or taxonomic confusion still exists the same organism may appear under more than one name.

In an index of this kind it is not possible to assume that any chosen entry will necessarily give complete coverage of the subject in question. After consulting the chosen entry it may be necessary to consult index entries for related larger or smaller groupings or for alternative names.

Thus, when the subject matter concerns organisms, whether host or parasite, entries concerned with related group, generic or popular names should be consulted, e.g.

Rodents, see also Animals, Mammals, Muridae, *Rattus*, Vertebrates, etc.

Cestoda, see also Helminths, *Hymenolepis*, Taeniidae etc.

A similar procedure is necessary with geographical entries, e.g.

East Africa, see also Africa, Kenya, Tanzania, Uganda

New records are identified by "new host record" for the first record of the named parasite in the named host and by "new geographic record" for the first record of the named parasite in the named country or region.

Anthelminitics are indexed by their common name (where known), their trade name, protocode number, or by their chemical name. Wherever possible proprietary drugs are cross-referenced to the appropriate common name (as given in Bard, J.H., 1972, "Anthelmintic Index". *Tech. Comm. No. 43 of the Commonwealth Institute of Helminthology*). No classification of the drugs is attempted.